

Math 434/534 Numerical Linear Algebra Fall 2011

Course Information

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Textbook:

1. **Numerical Linear Algebra and Applications**, by Biswa Nath Datta, Second edition, SIAM, 2010. (The book has been reprinted in 2011 and this reprinted version will be used in the class).

Buying the Book from SIAM- You can buy the book online from SIAM with a 30% discount as a SIAM member.

Student membership for SIAM is free. Join SIAM here : www.siam.org/membership/individual/free.php

2. Mastering Matlab7, Hanselman and Littlefield.

Grading Policy:

Homework/Quizzes: 100 pts

Computer-Oriented Assignments: 100 pts

Two classroom Exams: 200 pts

Final: 200 pts

Total: 600 pts

Lectures (Tentative)

Week	Sections
1	2.2, 2.3, 2.4, 2.5
2	3.1, 3.2, 3.3, 3.4, 3.7, 3.8
3	4.1, 4.2, 4.3, 4.4, 4.5
4	4.6.1, 4.7, 5.1, 5.2.1, 5.2.2
5	5.2.3, 5.2.4
6	6.4, 6.7, 6.8, 6.11
7	6.12.3, 6.12.5, 6.12.6
8	7.2, 7.6
9	7.8.1, 7.8.5, 7.8.6
10	7.8.9, 7.8.10
11	8.2, 8.3, 8.5
12	8.7
13	9.3, 9.4
14	9.5, 9.6
15	9.8.1, 9.8.2

Matlab Resources:

- Free online MATLAB tutorials are available from

[www.math.ufl.edu/help/matlab – tutorial](http://www.math.ufl.edu/help/matlab-tutorial)

- Practical Introduction to MATLAB by Mark Gockenback, available from

[http : //www.math.mtu.edu/gocken](http://www.math.mtu.edu/gocken)

- For a brief MATLAB introduction, consult Appendix B of the textbook, available online at

www.siam.org/books/ot116